"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860310012-9

ACCESSION NR: AP4034569

s/0079/64/034/004/1354/1355

AUTHOR: Shostakovekiy, M. F.; Vlasov, V. M.; Mirskov, R. G.

TITIE: Reaction of triethylmethoxystannane with acetylenic alcohols

SOURCE: Zhurnal obshchey khimii, v. 34, no. 4, 1964, 1354-1355

TOPIC TAGS: triethylmethoxystannane acetylenic alcohol reaction, tin containing acetylenic ether, disproportionation, reaction condition, reactant ratio, acetylenic alcohol, triethylmethoxystannane, stannane

ABSTRACT: Reaction of triethylmethoxystannane with primary, secondary or tertiary acetylenic alcohols containing an acetylenic hydrogen results in the formation of tin-containing acetylenic ethers of two types, depending on reaction conditions and reactant ratios:

 $(C_2H_5)_3SnOXC = CH + CH_3OH$ $(C_2H_5)_3SnOXC = CSn(C_2H_5)_3 + CH_3OH$ $(C_3H_5)_3SnOXC = CSn(C_2H_5)_3 + CH_3OH$ (II) $X = CH_3$; CH_3CH_4 ; CH_3CH_5 ;

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ACCESSION NR: AP4034569

Type I compounds are formed in 80-90% yield by reacting triethylmethoxystamane with a 2-4 fold excess of acetylenic alcohol at -10 C or at room temprature for 30 minutes; 10-20% of type II compounds are also formed. Type II compounds are formed in 80% yield when a 1:1 or 1:2 ratio of stamane: alcohol is heated to 100-110 C for 3-5 hours, or on prolonged stirring at room temperature. On prolonged standing or heating the type I compounds are disproportionated according to the equation:

 $2(C_2H_6)_3SnOXC = CH \longrightarrow (C_2H_6)_3SnOXC = CSn(C_2H_6)_3 + HOXC = CH.$

The following compounds were synthesized and characterized: 3-triethylstannoxy-propyn-1, 3-triethylstannoxy-1-triethylstannylpropyn-1, 4-triethylstannoxybutyn-1, 4-triethylstannoxy-1-triethylstannylbutyn-1, 3-triethylstannoxy-3-methylpropyn-1, 3-triethylstannoxy-3,3-dimethylpropyn-1, and 3-triethylstannoxy-1-triethylstannoxy-1-triethylstannyl-3,3-dimethylpropyn-1. Orig. art. has: 2 equations.

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya, Akademii nauk SSSR (Irkutsk Institute of Organic Chemistry, Siberian Division,

Card 2/3

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Academy of Sciences, SSSR)			
SUEMITTED: 28Nov63	DATE ACQ: 11May64	ENCL: 00	
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ord 3/3	<u> </u>		

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; GRE SOVE Y. P.I.

Polyfunctional acetals. Synthesis acetylenic acetals based on primary and secondary acet anic alcohols and vinyl alkyl ethers. Zhur. ob. khim. 34 no. 5:1403-1407 My 164. (MIRA 17:7)

1. Irkutskiy institut organlcheskoy khimli Sibirskogo otdoleniya AN SSSR.

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; NIKIFOROV, A.A.

Interaction of cyclic acetals with thiophenol. Zhur.ob. khim. 34 no. 5:1686-1687 My '64. (MIRA 17:7)

1. Irkutskiy institut organichesko/ khimii Sibirskogo otdeleniya AN SSSR.

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; MIRSKOV, R.G.

Synthesis of organotin acetylenic acetals. Zhur.ob.khim. 33
no.6:2076 Je '63. (MIRA 16:7)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

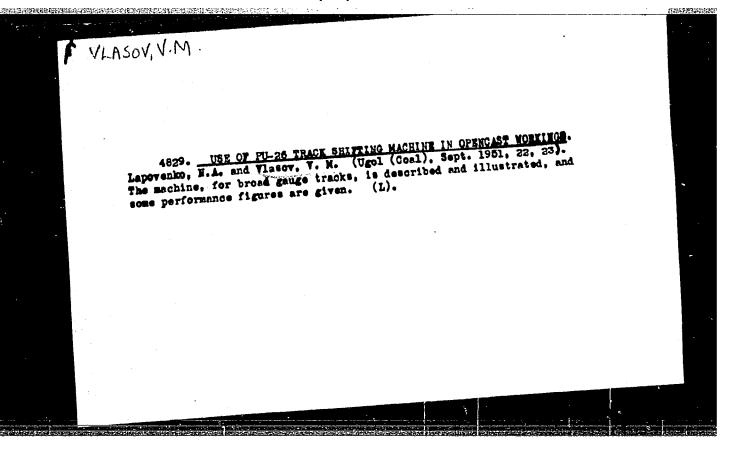
(Tin organic compounds) (Acetal) (Addtylene compounds)

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; KUZNETSOVA, T.S.; GOLOVANOVA, N.I.

Synthesis of asymmetrical acetals of acetylenic glycols based

on A.E. Favorskii's reaction. Zhur. ob. khim. 34 no.8:2804
Ag '64.

(MIRA 17:9)



VLASOV, V.M.; ORLOV, Ye.I., redaktor; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Operator of a discontinuous track-shifting machine] Mashinist
putsperedvigatelia preryvnogo deistviia. Moskva, Ugletekhizdat,
1954. 84 p.

(Railroads-Track) (Mine railroads)

HUTYLOCHKIN, Mikhail Ivanovich; VLASOV. Viktor Mikhaylovich; SUBOCH, N.I., red.; GORYUNOVA, L.K., red. izd-va; SHITS, V.P., tekhn. red.

[DM-54 diesel switcher for 750 mm gauge track] Dizel'nyi motovoz DM-54 kolei 750 mm. Moskva, Goslesbumizdat, 1958. 104 p. (Diesel locomotives) (MIRA 11:9)

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; KUZNETSOVA, T.S.

Disproportionation of acetals of acetylene glycols. Izv.AN SSSR.Ser.khim. no.12:2198-2199 165.

(MIRA 18:12)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR. Submitted April 5, 1965.

VLASOV, V.M.; VASIL'YEVA, A.A.; TYUMENTSEVA, G.P.

Synthesis of acetals of acetylenic secondary-tertiary glycols based on Favorskii rearrangement. Izv.AN SSSR.Ser.khim. no.12:2202-2204 '65. (MIRA 18:12)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR. Submitted April 6, 1965.

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; LOZHENITSYNA, A.S.; GAVRILOVSKAYA, A.A.

Synthesis of primary-tertiary acetylenic 8-glycols. 1zv. AN 38SR. Ser. khim. no.4:709-712 '65. (MIRA 18:5)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

L 2557-66 EWT(m)/EPF	(c)/EWP(j) RM	
ACCESSION NR: AP502496		0286/65/000/016/0033/0033 .419,5.6.002.2
AUTHOR: Shostakovskiy,	M. V.; Vlasov, V. M.; Mirskov, R.	G.; Petrova, V. N.
TITLE: Preparation of	tin-containing organosilicon acety	enic compounds Class 12,
SOURCE: Byulleten' izo	breteniy i tovarnykh znakov, no. 16	, 1965, 33
TOPIC TAGS: organosili	con compound, organotin compound, a	cetylene compound
	materials that the second	
method involves the read	cetylenic compounds of the type, in ction of R'3SnOR"C = CSnR3 [sic] wi and R' stand for alkyl and R" for	SiOR"C = CSnR ₃ . The th trialkylchlorosilanes
taining organosilicon a method involves the rea at low temperatures. R	cetylenic compounds of the type, $\{R\}$ ction of ${}^{\circ}R^{*}{}_{3}SnOR^{*}C \equiv CSnR_{3}$ [sic] wi	SiOR"C = CSnR ₃ . The th trialkylchlorosilanes -CH ₂ -, -CH ₂ CH ₂ -, -CH(CH ₃)-,
taining organosilicon a method involves the real at low temperatures. R or -C(CH ₃) ₂ .	cetylenic compounds of the type, $\{R\}$ ction of ${}^{\circ}R^{*}{}_{3}SnOR^{*}C \equiv CSnR_{3}$ [sic] wi	SiOR"C = CSnR ₃ . The th trialkylchlorosilanes -CH ₂ -, -CH ₂ CH ₂ -, -CH(CH ₃)-,

SHOSTAKOVSKIY, Mikhail Fedorovich; VLASOV, Viktor Mikhaylovich; SHOSTAKOVSKIY, Zakhariy Fedorovich; TZHEVSKIY, Konstantin Mikhaylovich; NIKOLAYEV, V.A., red.

[Curative polymers] TSelebnye polimery. Moskve, Izd-vo "Znanie," 1965. 43 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.6) (MIRA 18:5)

1. Chlen-korrespondent AN SSSR (for Shostakovskiy).

ACCESSION NR:	AP5010793		UP/007	9/65/035/004/0750/0750	
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TITLE: Synth	esis of acetylenic o	rganotin comp	ounds 1	B	
SOURCE: Zhur	nal obshchey khimii,	v. 35, no. 4	, 1965, 750		
TOPTH TAGS Sections (स्टब्स्ट केरी । स्ट्राइट होते. इत्यान		end of the medical	t, com i, a intropre	
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SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; GRENOVSKIY, P.I.; BOLOGOVA, V.G.

Polyfunctional acetals. Part 2: Synthesis of new carbonyl-containing acetals. Zhur.ob.khim. 33 no.12:4021 D 163. (MIRA 17:3)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; GRENOVSKIY, P.I.; GOLOVANOVA, N.I.

Polyfunctional vinyl ethers. Part 1: Vinyl alkynyl ethers. Zhur. ob.khim. 33 no.12:4020-4021 D '63. (MIRA 17:3)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN ${\tt SSSR}_{\:\raisebox{1pt}{\text{\circle*{1.5}}}}$

SHOSTAKOVSKIY, M. F.; VLASOV, V. M.; VASILIYEVA, A. A.

Problem of the preparation of acetylenic T glycols and some of their transfrmations. Report No. 1: Synthesis of 7-glycols on the basis of 1-butyn-3-ol. Izv AN SSSR Ser Khim no. 4:696-698 Ap '64. (MIRA 17:5)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

ORLOV, V.P., kend.sel'skokhoz.nauk. Prininali uchastiye: AVROV, N.N.;

BASENKO, P.V.; VARLAMOV, D.A.; VASIL'YEY, I.I.; YLASOV, Y.H.;

VILEGZHANINA, V.A.; ZHIVET'IEV, V.G.; ZAVADSKIY, I.S.; ZALESSKIY,

Ye.Ta.; ZAKORYUKIN, D.S.; ISHCHENKO, I.N.; KACHIBAYA, I.D.; KISE
LEV, Ye.S.; KOZHEVIIKOV, I.Z.; LISITSIN, V.I.; MESHCHERIAKOV, V.F.;

MYURIN-VERTSBERG, R.L.; PEREPELITSA, V.M.; RYABKOV, A.D.; SKURIKHIN,

I.P.; SOLOV'YEV, N.A.; YAS'KO, N.G.. GREBTSOV, P.P., red.; ZURRILINA,

Z.P., tekhn.red.

[Our farms in 1965] Nashi khozisistva v 1965 godu. Moskva, Gos.

izd-vo sel'khoz.lit-ry, 1959. 230 p. (MIRA 13:2)

(Agriculture)

VLASOV, V.N.; TROFIMOVICH, A.G.; GABITOV, R.Kh.

Ore drawing with vibration booling and loading equipment. Gor.zhur. no.3:23-26 Mr 165. (MIRA 18:5)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR (for Vlasov, Trofimovich). 2. Zlatoustovskoye rudoupravleniye (for Gabitov).

	Synthesis silanols.	of trialkyl Zhur. ob.	vinyloxysilane khim. 31 no.2:	s based on acetlylene and 683 F '61. (MIRA 14:	.21
		ut organiche	skoy khimii AN (Silanol)	·	**
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EIROHOV, A.M., ; VLASOV, V.M.

Some results of the work of the Stalin Mine for improvement of the technical and economic indices. Ugol' 36 no.6:13-JA Je '61. (MIRA 14:7)

1. Hachal'nik shakhty in. Stalina kombinata Kizelugol' (for Mironov). 2. Glavnyy inzh. shakhty im. Stalina kombinata Kizelugol' (for Vlasov).

(Kisel Basin-Goal mines and mining)

VLASOV, V.N., prof., MILOVIDOV, V.Ye., prof.

Treatment of ureterovaginal fistulas. Nauch.trudy Chetv.Mosk. gor.klin.bol?. no.1:302-306 161. (MIRA 16:2)

1. Iz kafedry akusherstva i ginekologii 2-go Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova (zavakafedroy - professor A.A. Lebedev) i gienkologicheskogo otdeleniya Moskovskoy gorodskoy klinicheskoy bol'nitsy No.4 (nauchnyy rukovoditel' - prof. V.N. Vlasov, glavnyy vrach - G.F. Papko).

(FISTULA, VESICO-VAGINAL)

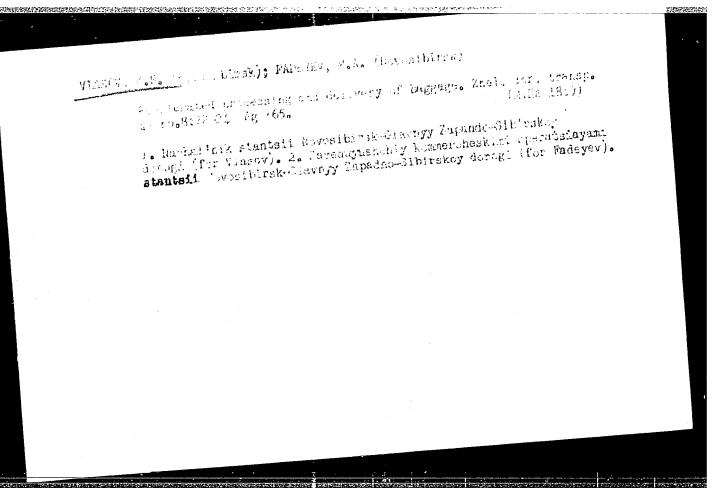
VLASOV, V.N., prof.

Treatment of trichomonal diseases of the sexual organs of a woman by the "liutenurin" preparation. Nauch.trudy Chetv.Mosk.gor.klin. bol'. no.1:295-301 '61. (MIRA 16:2)

1. Kafedra akusherstva i ginekologii pediatricheskogo fakul'teta
2-go Moskovskogo gosudarstvennogo meditsinskogo instituta imeni
N.I. Pirogova (zav. kafedroy - A.A. Lebedev) i ginekologicheskaya
klinika (zav. - prof. V.N. Vlasov), na baze Moskovskoy gorodskoy
klinicheskoy bol'nitsy No.4 (glavnyy vrach G.F. Papko).

(GENERATIVE ORGANS, FEMALE—DISEASES) (TRICHOMONIASIS)

(PHARMACOLOGY)



VLASOV, V.N., gornyy inzh.; SHEVNIN, B.I., gornyy inzh.

Breaking ore in chambers by using boreholes drilled through
the ore block. Gor. zhur. no.9:71-72 S '64. (MIRA 17:12)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

DEKETOV, A.R.; VLASOV, V.C.

Thermal stability of polynorphic GO3. Zhur.prikl.khim. 36 no.9:2103-2105 S 65. (MIRA 18:11)

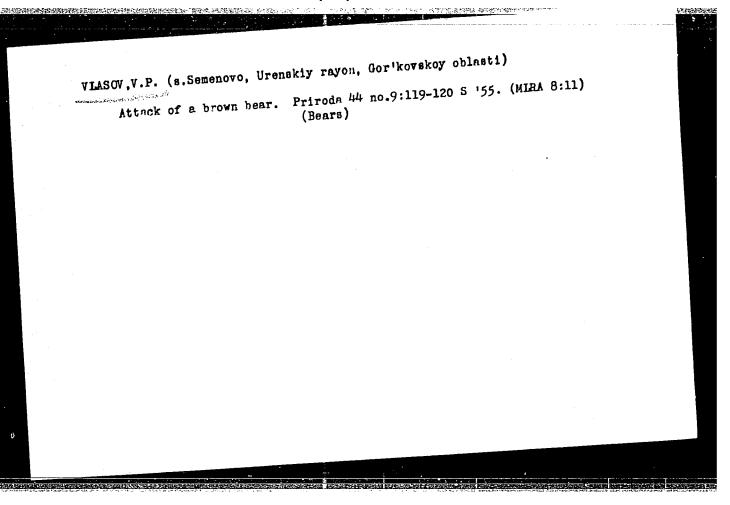
VLASOV, V.P.; NIKITIN, V.P.; BEROVA, F.B.

Diagnostic value of the test for C-reactive protein. Sov. med. 24 (MIRA 13:9) no.6;116-121 Je '60.

1. Iz kliniki obshchey terapii (nachal'nik - deystvitel'nyy chlen AMN SSSR prof. N.N. Savitskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(PROTEINS)

(HEART--DISEASES)



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on Mingal	laneous - Industrial processes	
22K/WIRCOT		
ard 1/1	Pub. 103 - 11/22	
	Asnes, A. M.; Grebenchuk, B. I.; and Vlasov, V. P.	
luthors	\$ -tule marks	
litle .	Knurling instead of buffing of shaft necks	
Periodical	Stan. 1 instr. 12, 26-27, Dec 1954	
Lerrogrear	1 # longs of 170 OY 50	aft
Abstract	The qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from knurling of the qualitative and economical advantages derived from the qualitative and economical a	SLLSniRd.
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s/057,/60/030/009/020/021 BO19/B054

26,2532 AUTHORS:

Vlasov, V. P. and Markin, S. A.

TITLE:

The Solution of the Unsteady Heat Conduction Problem for a Rod With Two Masses Attached to Its Ends. The Calculation

of a Differential Thermobattery

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 9,

pp. 1128-1133

TEXT: The authors investigated the temperature distribution in a onedimensional rod, to the ends of which masses are attached which are placed in media whose temperature changes linearly. The problem is formulated in the first part of the paper. The authors write down the linear heat conduction equation, and indicate the boundary conditions. The differential equation system set up here is solved with the aid of a contour integral by means of a meromorphous function which is found when solving the differential equation $aY''(x)-bY(x)-\lambda^2Y(x)=y(x)$. The solution obtained for the problem studied is used for the calculation of a Chromel-Copel differential battery. The construction of the latter is described with

Card 1/2

The Solution of the Unsteady Heat Conduction Problem for a Rod With Two Masses Attached to Its Ends. The Calculation of a Differential Thermobattery

811153 \$/057/60/030/009/020/021 B019/B054

the aid of Fig. 1. Fig. 2 graphically shows the experimental values obtained for the time dependence of the thermoelectromotive force of a battery with 50 thermocouples at a temperature jump from 20° to 50°C. The theoretical curve calculated with the solution obtained here shows a good agreement. The authors thank Docent M. L. Rasulov for valuable remarks. There are 2 figures and 5 Soviet references.

SUBMITTED:

April 8, 1959

Card 2/2

s/066/61/000/005/001/001 DO37/D113

AUTHOR:

V.lasov, V.P., Engineer

TITLE:

The pumping of liquid freon into cylinders

Kholodil'naya tekhnika, no. 5, 1961, 60-61

TEXT: With the aid of a diagram, the author suggests and describes a simple PERIODICAL: method of transferring freon into cylinders without using a pump. Prior to the transfer, the cylinder (2) into which freon is to be transferred must be cleaned, dried, and put under vacuum. An evaporator coil (11) made of copper tubes 12 x 1 mm in diameter is put on it and covered with a thermoinsulation (12). The evaporator's dimensions are: diameter - 220 mm, height - 1370 mm, coil pitch - 70 mm. The cylinder (2) thus prepared is placed on a decimal balance (13) together with an inclined support. The freon-delivery cylinder (1) is placed on a support with its valv. Cownwards, 100 - 200 mm above the cylinder (2) and connected by a supply line (7). After the valves (3 and 9) have been opened and the nut (14) unscrewed, the line is blown through towards the cylinder (2). When freon splashes appear,

Card 1/3

s/066/61/000/005/001/001 D037/D113

The pumping of liquid freon

the nut has to be tightly screwed. After the blowing through, the valve (9) has to be opened again. Passing through a nozzle (10) with an 1.5 mm aperture the liquid cooling medium is throttled and partially evaporated in the evaporator coil (11). As a result, the temperature and pressure in the cylinder (2) are reduced. Due to the difference in pressure, all the freon flows from cylinder (2) to cylinder (1) [Abstracter's note: Should this not read "from cylinder (1) to cylinder (2)"?]. At the beginning and end of the transfer, the temperatures in cylinder (1) are approximately 4°C and 2°C lower and the pressures 1 - 1.08 and 0.25-0.3 atmospheres lower than in cylinder (2). The pressure and temperature drop between the two cylinders (1 and 2) is maintained during the whole process. The transfer of 55 kg freon takes about 20 minutes. The process is controlled by a manometer (5), and a manovacuummeter (8), and through a small observation window (4). There is 1 figure. [Abstracter's note: Essentially complete translation.

Card 2/3

VIASOV, V.P.

An inadequate textbook ("Technical standardization in machine construction", T.V.Tolchenov. Reviewed by V.P.Vlassov).

Vest.mash.34 no.12:99 D'54. (MIRA 8:2)

1. Nachal'nik issledovatel'skoy sektsii tekhnicheskogo normirovaniya Zavoda ugol'nogo mashinostroyeniya imeni 15-letiya
LKSMU.

(Machinery--Construction)

USSR/ Engineering - Methods

Card 1/1 Tub. 128 - 10/23

Authors : Asnes, A. M.; Grebenchuk, B. I.; and Vlasov, V. P.

Title : The milling of shaft journals in place of folishing

Periodical: Vest. mash. 2, 48 - 50, Feb 1955

Abstract : A description is presented of a knurling roller made of ShKh-15 steel, hardened to 62 - 64 Rg., for milling shaft journals up to 8 and 9 degrees of surface sacothness. Table; drawings.

Institution:

Submitted:

S/122/60/000/009/007/015 A161/A026

AUTHOR:

TITLE:

Vlasov, V.P

Hydraulic Test Stand With Pressure Multiplier

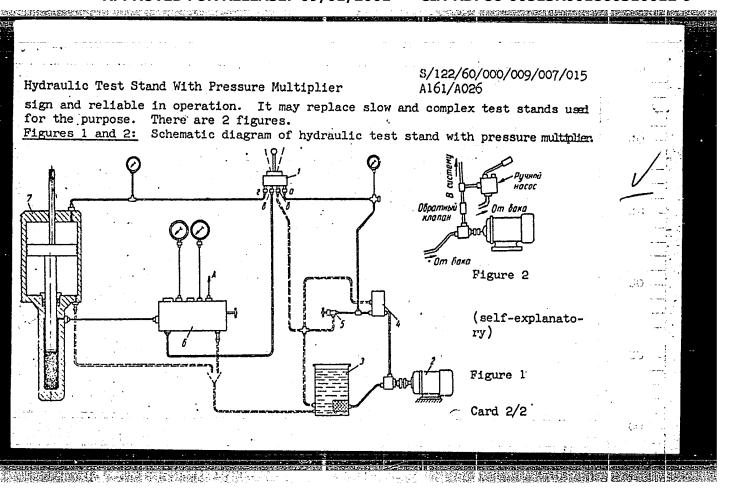
PERIODICAL:

Vestnik mashinostroyeniya, 1960, No. 9, pp. 45 - 46

The article presents detailed information on design and operation of a new small test stand for testing hydraulic tightness and strength of equipment parts. It was designed by the author and F.Ye. Kotyshevskiy. The design principle is illustrated (Fig. 1). The stand is fitted with a pressure multiplier having a range of 0 - 1,300 kg/cm² (with permissible overload up to 1,500 kg/cm²); the input pressure of the multiplier varies from 0 to 165 kg/cm² (multiplication rate is 1:8); the work fluid is AMT-10 (AMG-10) according to GOST 6794-53 standard. (Tested parts are connected to the branch marked by arrow A in Fig. 1). The stand may be made universal and the filling and discharging of the multiplier in long dynamic tests may be automated by installing an electrocontact pressure gauge for 0 - 1,600 kg/cm² [an electric cock of H-5855-100 (N--5855-100) or H-5855-200 (N-5855-200), or FA-46 (GA-46) type and a relay unit.) For tests with short static load, a hand pump (Fig. 2) of HP-O1 (NR-O1) type is installed in the system behind the main pump. The stand system is simple in de-Card 1/2

"APPROVED FOR RELEASE: 09/01/2001 CIA

CIA-RDP86-00513R001860310012-9



WIASOV, V.P., nauchnyy sotrudnik

Soldering band saws for sawing logs. Trudy VENIPILesdrev no.5:

36-40 '62.

(Band saws) (Solder and soldering)

POCHEKUTOV, Stepan Platonovich; VLASOV, Viktor Petrovich; OREL, Pavel Ignat'yevich; FONKIN, V.F., red.; YELCHINA, L.A., red.izd-va; BACHURINA, A.M., tekhn. red.

[Preparation for the operation of wide band saws] Opyt podgotovki k rabote shirokikh lentochnykh pil. Moskva, Goslesbumizdat, 1963. 53 p. (MIRA 17:1)

VLASOV, V. P.

Designing the bridge circuit of a ratio meter having both shelves connected with the measuring diagonal. Priborostroenie no.10:1-2 0 162. (MIRA 15:10)

(Bridge circuits)

VLASOV, V. P.

"Investigation of the Process of Peat Pulp Concentration in Settling Bonds and a Study of the Properties of Sediment." Sub 26 Jun 51, Moscow Peat Inst

Dissertations presented for science and engineering degrees in Moscow during 1951. SO: Sum. No. 480, 9 May 55

VLASOV, V.P., kandidat tekhnicheskikh nauk.

Average thickness of the hydraulic peat layer lost in a peat bog and the depth of lowering the peat pump. Torf.prom. 31 no.7: 22-24 '54. (MLRA 7:11)

1. Moskovskiy torfyanoy institut.
(Peat industry)

VLASOV, V.P., kandidat tekhnicheskikh nauk.

Shrinkage ef peat during drying. Terf.prem. 32 ne.8:13-15 '55.

1.Moskevskiy terfyaney institut.

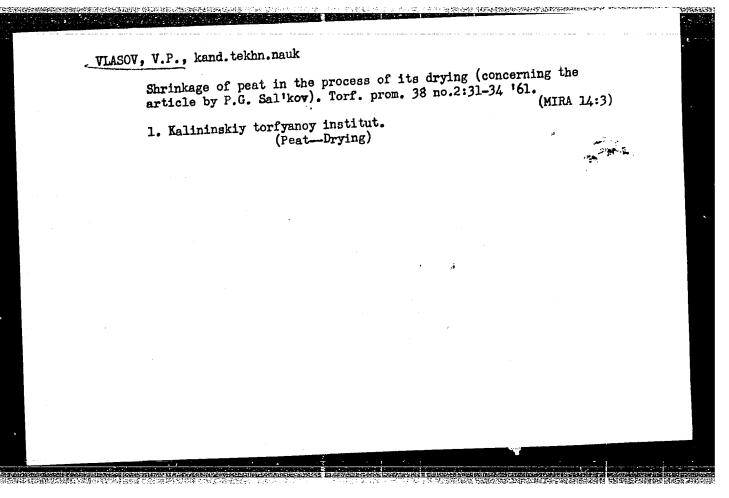
(Peat)

VEILER, M.A., professor; ABKHAZI, V.I., kandidat tekhnicheskikh nauk;
ANTONOV, V.Ya., dotsent; VIASOV, V.P., kandidat tekhnicheskikh nauk;
KIRYUDGHEV, A.M., kendidat tekhnicheskikh nauk;
ALTUDGHEV, A.M., kendidat tekhnicheskikh nauk;
ILL,
dotsent; SIPKIN, M.A., dotsent; YEFIMOV, P.N., redaktor; IARIONOV,
G.Ye., cekhnicheskiy redaktor

[Hydro peat technology] Tukhnologiia gidrotorfa. Izd. 2-oe, perer.
Pod red. M.A. Vellera, Moskva. Gos.energ. izd-vo. 1956. 362 p.

(Peat industry)

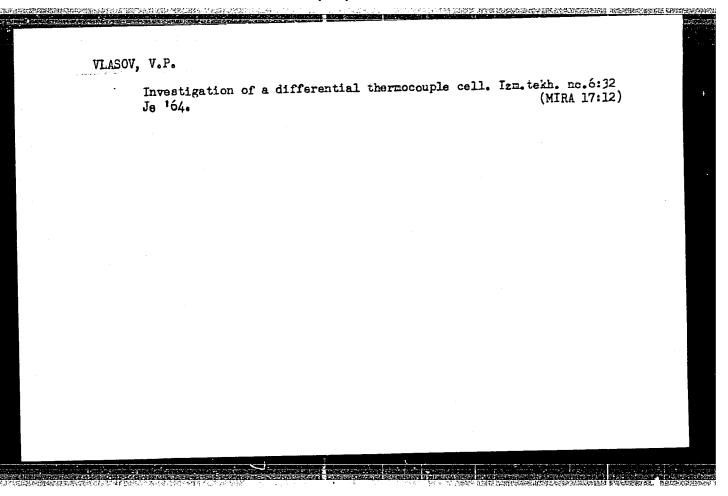
(MIRA 9:11)



VERTINSKIY, K.I., prof.; ALIKAYEV, V.A., dotsent; PODKOPAYEV, V.M., dotsent; SHISHKOV, V.P., dotsent; ANDREYEV, I.A., veterin. vrach (Moskovskaya ohl.); VLASOV, V.P., veterin. vrach (Moskovskaya obl.); MAMAYEV, A.P., veterin.vrach (Moskovskaya obl.); SHUL'GOVSKIY, I.P., veterin. vrach (Moskovskaya obl.)

Diagnosis, therapy, and prophylaxis of toxic dyspepsia in calves. Veterinariia 41 no.1:59-64 Ja '65. (MIRA 18:2)

1. Moskovskaya veterinarnaya akademiya (for Vertinskiy, Alikayev, Podkopayev, Shishkov).



SITENKO, V.M., prof.; VLASOV, V.S.

Evaluation of the lumbar ganglionectomy operation in endarteritis obliterans in the light of late results. Khirurgiia no.11:65-70 (MIRA 14:12)

1. Iz kafedry fakul tetskov khirurgii imeni S.P. Fedorova (nach. - prof. V.M. Sitenko) Voyenno-meditsinskov ordena Lenina akademii S.M. Kirova.

(ARTERIES—DISEASES)
(NERVOUS SYSTEM, SYMPATHETIC—SURGERY)

ACCESSION NR: AP4018374

S/0120/64/0C0/001/0100/0102

AUTHOR: Vlasov, V. S.; Yeremin, A. S.; Rozov, B. S.

TITLE: Precision pulse amplifier units

SOURCE: Pribory* i tekhnika eksperimenta, no. 1, 1964, 100-102

TOPIC TAGS: amplifier, pulse amplifier, transistorized pulse amplifier, parallel feedback transistorized amplifier, precision transistorized amplifier

ABSTRACT: Transistorized amplifier units intended for experimental physics purposes are briefly described; their gain is from 1 to 20; leading-edge pulse time, 0.1 microsec or shorter; amplitude-characteristic nonlinearity, 0.2% or less. The effect of temperature on a P401 transistor gain is presented, simplified circuit diagrams of 3- and 4-transistor units are shown, and hints as to the most suitable application of current-feedback and voltage-feedback amplifiers are supplied. Orig. art. has: 4 figures and 2 formulas.

Card . 1/2

ACCESSION NR: AP4018374

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow Engineering

and Physics Institute)

SUBMITTED: 01Feb63

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: GE

NO REF SOV: 000

OTHER: 001

Card 2/2

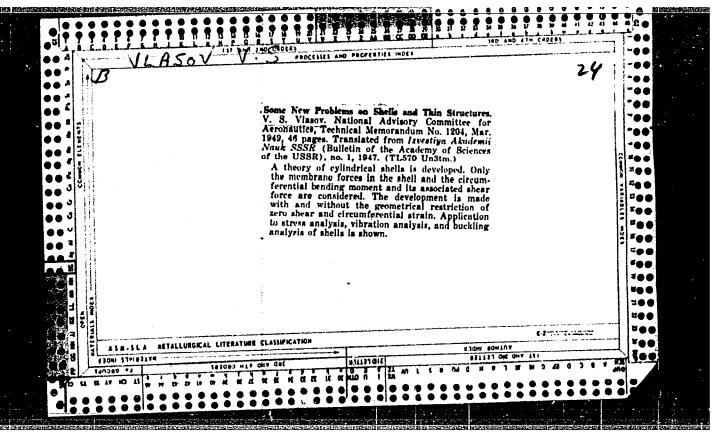
VLASOV, V.S.; YEREMIN, A.S.; ROZOV, B.S.

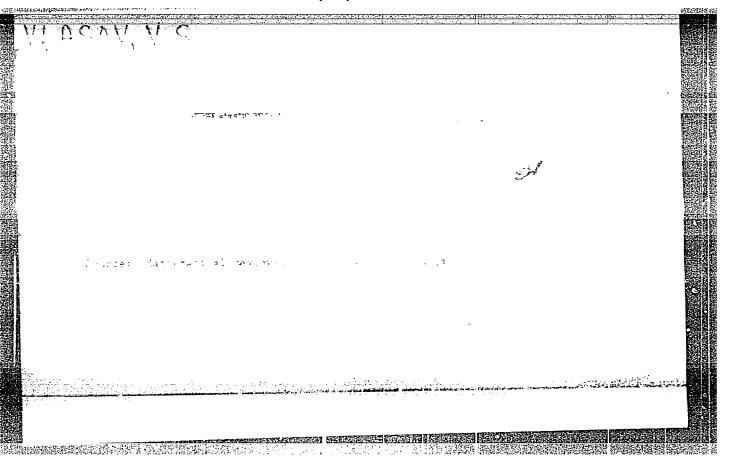
Units of exact pulse amplifiers. Prib. i tekh. eksp. 9 no.1: 100-102 Ja-F '64. (MIRA 17:4)

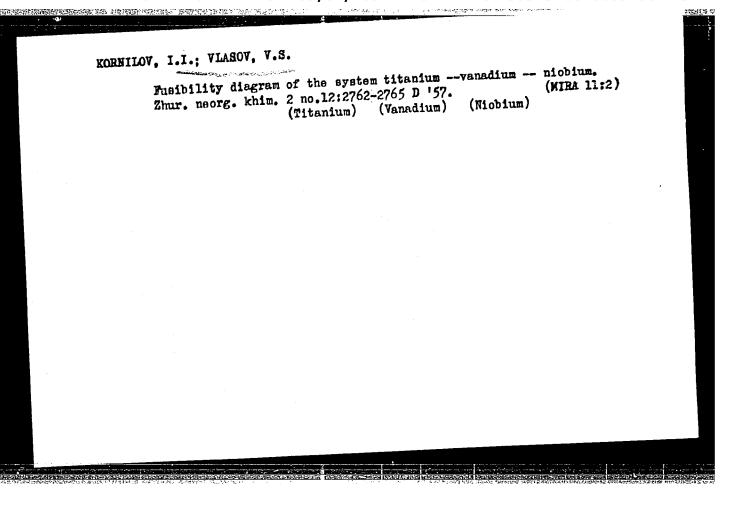
1. Moskovskiy inzhenerno-fizicheskiy institut.

VLASOV, V.S.; YEREMIN, A.S.; ROZOV, B.S.; SARAYEV, I.P.

Electron tube-transistor amplifying sections with parellel feedback. Prib. 1 tekh. eksp. 9 no.5:139-142 S-0 '64. (MIRA 17:12)







VLASOV, V.S.; YEREMIN, A.S.; ROZOV, B.S.

Measurement of the current amplification factor of a transistor.

(MIRA 16:4)

(Transistors)

SOV/24-58-4-5/39

AUTHORS:

Vlasov, V.S., Kornilov, I.I. (Moscow)

TITIE:

The Composition-Heat Resistance Diagrams of the Binary Titanium-Vanadium and Titanium-Niobium Systems (Diagrammy sostav-zharoprochnost' dvoynykh sistem

titan-vanadiy i titan-niobiy)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 4, pp 31 - 35 (USSR)

ABSTRACT:

The binary systems were investigated up to 50 weight % of vanadium and niobium. The specimens were made by powder-metallurgical methods, pressing the powder into rectangular rods, heating in vacuo at 1 400 °C for 48 hours and finally turning them down into cylinders of 45 mm and finally turning them down into cylinders of 40 mm length and 4 mm diameter. Heat resistance was measured by a centrifugal method (Ref 4), consisting of determination of deflection 5 (in mm) produced by a bending stress of deflection 5 (in mm) produced by a bending stress of (in kg/mm). Heat resistance was expressed as the time required to (in hours) to produce a given deflection time required to (in hours) to produce a given deflection (5, 10 or 15 mm). The investigation was carried out in three successive stages (1) 100 hours at 500 °C with a

Cardl/3

SOV/24-58-4-5/39

The Composition-Heat Resistance Diagrams of the Binary Titanium-Vanadium and Titanium-Niobium Systems

bending stress of 15 kg/mm², (2) 100 hours at 500 °C and 20 kg/mm² and (3) 100 hours at 600 °C and 20 kg/mm². The Ti-V alloys fractured in the first stage. Several Ti-Nb alloys endured a considerable time at 500-600 °C and 15-20 kg/mm². The dependence of the deflection δ on the V and Nb content is given in Figures 1 and 2. Hardness-composition curves (above) and heat resistance-composition curves (below) are shown in Figures 3 and 4. The dotted curve in Figure 4 shows hardness of Ti-Nb alloys before test. The continuous hardness curves are those taken after the test. In the α region heat resistance increases with increase in Nb or V to a maximum at limiting solubility. In the $\alpha + \beta$ region there is a heat resistance minimum. Hardness also increases in the α region to a maximum. There is a continuous decrease in hardness in the $\alpha + \beta$ region, except for the case where hardness was measured before the test. Figure 5 shows the microstructures before and after test. This shows the breaking up of the grains

Car d2/3

SOV/24-58-4-5/39

The Composition-Heat Resistance Diagrams of the Binary Titanium-Vanadium and Titanium-Niobium Systems

during test. The difference in the heat resistance and hardness curves in the $\alpha+\beta$ region is due to the fact that hardness depends on the properties of the individual phases, whereas heat resistance depends on the interaction at the surface boundaries between the phases. This type of heat resistance-composition curve has also been observed in the Ti-Al, Ni-Al and Fe-Ni systems (Refs 6, 7 and 11) at medium temperatures and agrees with the theory formulated by Kornilov (Ref 5). There are 5 figures and 12 references, 9 of which are Soviet and 3 English.

SUBMITTED: July 3, 1957

Card 3/3

SOV/24-58-7-28/36

AUTHORS:

Vlasov, V.S. and Kornilov, I.I.

TITLE:

Composition Versus Hot-strength Diagrams for Alloys of the Ternary System Titanium-vanadium-niobium (Diagrammy sostav-zharoprochnost' splavov troynoy sistemy titan-

vanadiy-niobiy)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, 1958, Nr 7, pp 136 - 139'(USSR)

ABSTRACT:

The diagrams of the ternary system titanium-vanadiumniobium constructed by the authors (Ref 3) showed that all the alloys of the ternary system crystallise as continuous solid solutions. Specimens after hot-strength tests (200-250 hours at 500-600 °C) have either a single-

phase α and β or a two-phase $\alpha + \beta$ structure

(Figure 1). The boundaries of these regions with adjacent binary system diagrams and the titanium corner are shown in Figure 2. In the authors' experiments power-metallurgy methods were used to prepare $5 \times 5 \times 100$ mm rectangular blanks from 99.5% pure Ti, 98.7% pure V and 98.7% pure Nb. After vacuum fusion cylindrical test pieces 45 mm long and

4 mm in diameter were machined. Three series of

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SOV/24-58-7-28/36

Composition Versus Hot-strength Diagrams for Alloys of the Ternary System Titanium-vanadium-niobium

compositions with V:Nb ratios of 3, 1 and 1/3 were used. The centrifugal test method (Ref 5 in Ref 1) was used. In the first stage of testing (100 hours) the temperature was 500 °C and the bending stress 15 kg/mm; in the next 100 hours the stress was 20 kg/m² at the same temperature; in the final 100 hours the temperature was 600 °C at the same stress. The measure of hot strength was the time taken to produce a deflection of 5, 10 or 15 mm. In Figure 3, these times are plotted against composition and compared with hardness vs composition curves before and after testing. Discussing their results in terms of phase changes the authors conclude that for the titanium corner of the ternary diagram the hot-strength maximum of the α -phase corresponds to its saturation limit; in the α + β two-phase region there is a minimum determined by the branches of the hot-strength curves descending from the boundaries of the two-phase with the one-phase region, The relations obtained are in agreement with theory (Ref 5 in Ref 1), with the authors' results for binary

Card 2/3

SOV/24-58-7-28/36

Composition Versus Hot-strength Diagrams for Alloys of the Ternary System Titanium-vanadium-niobium

Ti-V and Ti-Nb systems (Ref 1) and with other experimental results. In general, the authors conclude that for test temperatures such that hot strength depends mainly on a solution-precipitation mechanism of interaction at the phase boundaries the nature and number of the alloy components of a system influence the level of values in hot-strength vs composition diagrams, while the shape of the diagram is influenced by the phase composition and structure. There are 3 figures and 4 references, 3 of which are Soviet and 1 English.

SUBMITTED: August 9, 1957

Card 3/3

VLISOV, V.S., Gend Technoi—(dire) "Study of the condition discreted of the triple (literalum-venedius-niobinal system)." Lin, Fubliching "cause of the Acad Sci USSR, 1952. 10 pr (Load Sci USSR. Inst of let llurging Lin. Baykov), 185 copies (Ap. 43-58; 147

SOY/78-4-7-28/44

5(2), 18(7) AUTHORS:

Kornilov, I. I., Ylasov, Y. S.

TITLE:

The Phase Diagram of the System Titanium - Vanadium - Niobium (Diagramma sostoyaniya sistemy titan - vanadiy - niobiy)

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 7,

pp 1630-1637 (USSR)

ABSTRACT:

PERIODICAL:

In a previous paper (Ref 12) the authors stated that all alloys of the system mentioned in the title crystallize as continuous solid solutions on the basis of β -titanium. This is explained by the small differences in the atomic diameters (Table 1) of these elements and by the isomorphism of the lattices of V and Nb with that of β-titanium. The present paper reports about the experimental investigation of the phase diagram and the phase transformations in the ternary system mentioned by means of microstructural analysis, measurement of hardness, thermal expansion, and of the electric resistance. The composition of the alloys investigated is shown by table 2 and figure 1. Figure 2 shows pictures of some microstructures, figures 3-6 show the isothermal cross sections of the system at 1000°, 800°, 700° and 600°. Figure 7 is a spatial representation

Card 1/2

507/78-4-7-28/44

The Phase Diagram of the System Titanium - Vanadium - Niobium

of the phase diagram. The upper part has the continuous character of the solidus surface. At 885° a closely limited range of the solid α -solution is formed in the titanium corner on the basis of the hexagonal α -modification of titanium. Between this range and the β -solution there is a biphase $\alpha+\beta$ -range. There are 7 figures, 2 tables, and 12 references, 9 of which are Soviet.

SUBMITTED:

April 2, 1958

Card 2/2

83125

\$/078/60/005/009/008/017 BO15/BO64

18.1200

AUTHORS:

PERIODICAL:

Kornilov, I. I., Vlasov, V. S.

TITLE:

Investigation of the Physicochemical Properties of the Alloys of the Ternary System Titanium - Vanadium - Niobium

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 9,

pp. 2017-2024

TEXT: The electrical resistivity, its thermal coefficient, thermal expansion, and the hardness of the systems Ti-Nb and Ti-V-Nb were investigated. The thermal preliminary treatment of the samples was done in two ways. The electrical resistivity was determined at 20° and 100°C with a NATB(PPTV) potentiometer. The hardness was investigated on samples that were subjected to microstructural analysis. The samples were annealed at different temperatures in accordance with the titanium content. On the basis of the phase diagrams obtained, a similar dependence of the electrical resistivity and temperature coefficient on the composition were found to exist in the titanium corner of the phase diagram of the threecomponent system, as well as the two-component system. The diagrams of

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83125

the thermal expansion of the ternary system in the range of a composition V: Nb=1:1 showed that in the two-phase range there are sections of an irregular change of expansion, i.e., where the most intensive phase transformation takes place. The temperature of these sections decreased with the increase of the vanadium- and niobium content, which terresponds to the phase diagram. Lines of the same hardness, i.e., isoscleric lines of the isothermal cross section for 600°C were drawn on the diagram of insystem Ti-V-Nb according to the values of hardness measurement (Fig. 9). Change of hardness is also dependent on the phase structure. The octimum compositions of the alloys on the basis of α - and β -phases with certain properties can be determined on the basis of the phase diagrams. There are 9 figures and 10 references: 7 Soviet and 2 US.

SUBMITTED:

June 19, 1959

Card 2/2

s/180/62/000/001/009/014 E111/E135 An investigation of phase transformations in steel Vlasov, V.S. (Moscow) PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. (+ 2 plates)
no.1, 1962, 134-138 (+ 2 plates) AUTHOR: A qualitative and quantitative investigation was made TITLE: A qualitative and quantitative investigation was of the mechanism and kinetics of the formation and growth of a different and grains in ferritancementite mixtures of a different average in ferritancement its mixtures of a different average in ferritancement in the formation and growth of a different average in the ferritancement is a different average in the ferritancement in the ferritancement is a different average in the different average in the ferritancement average in the different average in the differ of the mechanism and kinetics of the formation and growth of austenite grains in ferrite-cementite mixtures of a different degree of initial digneration under conditions of isothermal austenite grains in refrite-cementite mixtures of a different degree of initial dispersion under conditions of isothermal degree of initial dispersion under conditions of a deal has 10 hazt of a deal hazt of a degree of initial dispersion under conditions of isothermal Si; degree of initial dispersion under steel 45 (0.427% C; 0.22% Si; annealing at 750 °C. Specimens of steel 45 (0.427% C; 0.22% Si; annealing at 750 °C. Specimens of disce 18 mm in dismeter and 2 mm the form of disce 18 mm in dismeter and 2 mm annealing at (DU -C. Specimens of Steel 40 (U.42/2 C; U.22% S1; of the form of discs 18 mm in diameter and 2 mm thick of the form of discs 18 mm in diameter and jeothermal of the investigation soaking was done in a lead path. Four initial structures were tested. Structure I - medium plate pearlite and ferrite, mean tested. were used for the investigation. tested. Structure 1 - mealum plate pearlite and lerrite, n heat treatment - heating to heat treatment furnace at cooling with the furnace at 830°, soaking for 30 minutes, cooling with the furnace at card 1/4

S/180/62/000/001/009/014
An investigation of phase ... E111/E135

Structure II - martensite; heat treatment heating to 830 °C, soaking for 30 minutes, cooling in water. Structure III - spheroidised structure I (with a non-uniform distribution of cementite grains); heat treatment - heating to 680 °C, soaking for 150 hours. Structure IV - spheroidised structure II (with a uniform distribution of cementite grains); heat treatment - heating to 680 °C, soaking for 150 hours. For the isothermal treatment specimens, in lots containing each type of structure, were immersed into the bath at 750 °C and, after an appropriate soaking time, quenched in water. austenite formed during the treatment and fixed on quenching in the form of martensite was called conditionally "austenite". All quenched specimens were heated for one hour at 150 oc in order to obtain a clearer definition of this "austenite" under the microscope. The investigation was done by measuring Vickers hardness and qualitative and quantitative microstructural analyses. A study of the structures formed during isothermal transformation at 750 °C indicated that: 1) austenite grain growth takes place mainly in the direction of ferrite grains; Card 2/4

An investigation of phase ...

S/180/62/000/001/009/014 E111/E135

2) austenite grain growth results from the joining of neighbouring austenite grains and their coagulation; 3) overall increase in the amount of austenite takes place due to dissolution, from the surface, of cementite grains in contact with austenite and ferrite. Austenite grain growth, dissolution of cementite grains in contact with austenite and ferrite grains and coagulation of austenite grains take place The velocity of transformation of ferritesimultaneously. cementite mixtures into austenite increases with increasing degree of dispersion of the initial cementite. The time of the beginning of the transformation (as detected by the metallographic analysis) for finely dispersed structures I and II was about 40-60 seconds, and for spheroidised III and IV structures, 120-300 seconds. On the basis of a comparison of the kinetic curves of isothermal transformation with kinetic curves of "dissolution" of cementite grains the following qualitative relationships were established. 1. The kinetics of an increase in the amount of austenite on heating are mainly determined by the kinetics of dissolution of cementite grains in contact with Card 3/4

K

An investigation of phase ...

S/180/62/000/001/009/014 E111/E135

ferrite. 2. Maxima of the velocities of austenite grain growth in structures III and IV coincide in time with the maxima of velocities of "dissolution" of cementite grains in contact with ferrite. 3. The size of the maximum of the velocity of austenite grain growth of structure III is 21 times higher and that of structure IV 15 times higher than the maximum of the velocities of "dissolution" of cementite grains in contact with ferrite. It is concluded that the method used permits qualitative evaluation of phase transformation processes on heating of sufficiently spheroidised initial structures. There are 4 figures.

SUBMITTED: September 2, 1961

Card 4/4

Attachment for creep tests at very high temperatures. Zav.lab. 28 no.7:868-871 162 (MIRA 15:6) (Creep of metals)					
it.					

FLEGONTOVA; AKATOV, S.; AKATOV, K.; ARUTYUNYAN; BAGDASAROV; PEREPELYUK; ORLIK; ROMENETS; IKHNO; VLASOV; TSIRKEL!; SYROYEZHKO.

Obligations in honor of the 22d Congress of the CPSU have been fulfilled. Masl.-zhir. prom. 27 no.11:1-3 N '61. (MIRA 15:1)

1. Zamestitel' nachal'nika ekonomicheskogo otdela Upravleniya meditsinskoy i parfyumernoy promyshlennosti Mosgorsovnarkhcza (for Flegontoya). 2. Direktor Leningradskogo mylovarennogo zavoda imeni Karpova (for S.Akatov). 3. Direktor Nevskogo mylovarennogo zavoda (for K.Akatov). 4. Glavnyy inzh. Zaporozhskogo maslozhirovogo kombinata (for Arutyunyan). 5. Direktor Yerevanskogo maslozhirovogo kombinata (for Bagdasarov). 6. Direktor Ferganskogo maslozhirovogo kombinata (for Perepelyuk). 7. Glavnyy inzh. Chimkentskogo maslozhirovogo kombinata (for Orlik). 8. Direktor Kazanskogo zhirovogo kombinata (for Romenets). 9. Glavnyy inzh. Gomel'skogo zhirovogo kombinata (for Ikhno). 10. Direktor Novosibirskogo zhirovogo kombinata (for Vlasov). 11. Direktor Odesskogo masloekstraktsionnogo zavoda (for TSirkel'). 12. Direktor Vitebskogo masloekstraktsionnogo zavoda (for Syroyezhko). (Oil industries)

ORLOV, A.A., kand.fiz.-matemat.nauk, red.; SHPIL RAYN, E.E., kand.tekhn. nauk, red.; VLASOV, V.T., red.; IOVLEVA, N.A., tekhn.red.

[Scientific problems connected with artificial satellites; collection of articles] Nauchnye problemy iskusstvennykh sputnikov; sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1959.

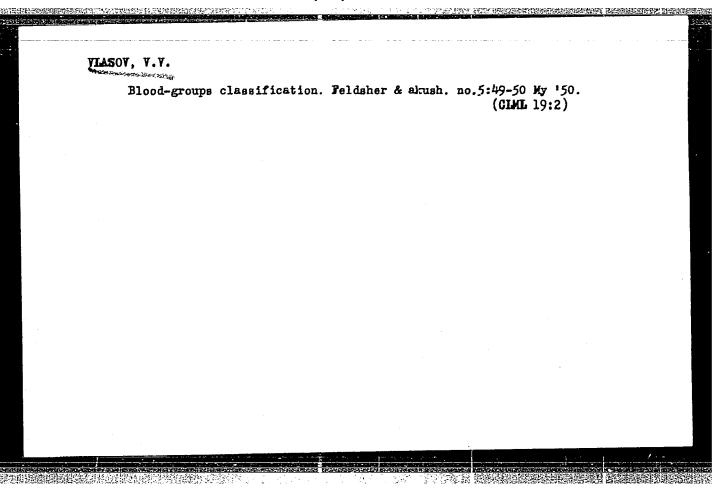
[MIRA 12:12]

(Artificial satellites)

VLASOV, V. V.

VLASOV, V. V.: "Methods of multiple revelation of the contents of printed matter in a systematic catalogue." Moscow State Library Inst imeni V. M. Molotov. Moscow, 1956. (Dissertation for the Degree of Candidate in Pedagogical Science.)

Knizhnaya Letopis' No 32, 1956. Moscow.



3/170/62/005/008/005/009 B104/B102

THE PROPERTY OF THE PROPERTY O

AUTHOR:

Vlasov, V. V.

TITLE:

Automatic device for establishing quasistationary heat

conditions

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 8, 1962, 90-92

TEXT: A device providing continuously programmed control over quasistationary heat conditions has been developed as shown in Fig. 1, the program being controlled by the linear potentiometer (8) in which the slider is driven by a synchronous motor (14). In the measuring circuit the voltage (5) was adjusted linearly so as to compensate the thermo-enf of the thermocouple (4). An automatic electronic relay (15) served to control the power of the heater when, after it was switched on for the first time, the temperature rose too fast as compared with the programmed rate, owing to the heat capacity of the heater. The device secures a linear temperature rise over a wide range. There is 1 figure.

Institut khimicheskogo mashinostroyeniya, g. Moskva ASSOCIATION: (Institute of Chemical-Machine Building, Moscow)

Card 1/3

S/170/62/005/009/006/010. B104/B102

AUTHOR:

Vlasov, V. V.

TITLE:

Automatic device for continuously determining the thermal diffusivity of solid materials under quasistationary thermal conditions

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 9, 1962, 66 - 73

TEXT: A programmed automatic controller (Fig. 1) for establishing quasistationary thermal conditions in a calorimeter is described. The control program is set up by a linear potentiometer R_1 the slider of which is connected with the shaft of a $\Pi A-9$ (PD-9) reversible motor. The thermoment is measured by a compensating measuring circuit (R_1, \dots, R_4). The computer shown in Fig. 2 continuously computes the coefficient of thermal diffusivity $a = kb/\Delta$ t of an unbounded plate, of thickness 1, where $k = 1^2/2$ and $k = kb/\Delta$ from the temperature differences $k = kb/\Delta$ to find the temperature differences $k = kb/\Delta$ to find the temperature differences $k = kb/\Delta$ full account is given of this controller and computer. Practical studies have shown that errors may arise in a from the following factors: (1) non-card $k = kb/\Delta$

\$/170/62/005/009/006/010 Automatic device for continuously ... B104/B102 linear heating; (2) non-uniform annealing temperatures at the lateral faces of the plate; (3) non-uniform temperature field in the contact surface between plate and heater; (4) nonlinearities in temperature recording; (5) inaccuracies in the equation for a; (6) poor heat contact between plate and heater. Numerical results of a(t) are given for asbestos cement. There are 3 figures. ASSOCIATION: Institut khimicheskogo mashinostroyeniya, g. Moskva (Institute of Chemical Machinery, Moscow) SUBMITTED: January 30, 1962 Fig. 1. Automatic program controller. Legend: (1) reference input element; (2) magnetic amplifier; (3) phase-sensitive amplifier; (4) PN -5 (RP-5) relay; (5) relay amplifier; (6) scheme for automatic and manual control; (7) CA-54 (SD-54) synchronous motor; (8) electronic time relay; (9) reversible motor; (10) circuit for automatic reversal; (11) voltmeter; (12) ammeter; (13) voltage controller; (14) calorimeter; (15) potentiometer. Card 2/0 Z

137-58-6-11909

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 104 (USSR)

AUTHORS: Shvartsman, B.Kh., Vlasov, V.V.

TITLE: Relationship of the Temperature Limit of Sinter Formation to

the Content of Iron Compounds in Tikhvin Bauxites (Zavisimost' temperaturnogo predela spekoobrazovaniya ot soderzhaniya sovedineniy zheleza v boksitakh Tikhvinskogo mestorozhdeniya)

PERIODICAL: Tr. Vses. alyumin.-magn. in-ta, 1957, Nr 39, pp 129-132

ABSTRACT: An investigation is made of the effect of the Fe compounds in

Tikhvin bauxites upon the sintering temperature limit. Mixes of bauxites having varying amounts of Fe were sintered with limestone and soda in the form of briquets at 1100° C to the temperature of onset of fusion. Sintering proper at the given temperature continued for 30 min. The sinter was then cooled and visually evaluated for physical condition, ground to -63 mesh, and leached with NaOH solution (25-26 g Na₂O/liter) for 15 min, the liquid-to-solid ratio being 5 and the temperature 85°. It was found that the temperature limit of sinter formation

fluctuates within the 1200-13250 range for bauxite having a

Card 1/2 weight ratio of $Al_2O_3/Fe_2O_3 = 2.5-3$, and $1200-1275^{\circ}$ for

137-58-6-11909

Relationship of the Temperature (cont.)

bauxite with a weight ratio of $Al_2O_3/Fe_2O_3 = 2$ regardless of the dosage of limestone in the charge and the amount of SiO_2 in the bauxites (the Al_2O_3/SiO_2 weight ratio was 2.59-3.86). The effect of increasing the Fe contents of the bauxites as the Al_2O_3/Fe_2O_3 weight ratio changed from 3 to 2 consists of narrowing the temperature range of sintering, reducing the temperature of onset of sinter fusion by $25-50^\circ$, and reducing the extraction of alumina and caustic from the aluminum with standard leaching.

1. Sintered aluminum ores--Temperature factors 2. Iron compounds--Thermal effects

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860310012-9

S/137/62/000/007/057/072 A160/A101

AUTHORS:

v, Yu. F., Vlasov, V. V., Rozanov, A. N.

TITLE:

Some properties of triple β -solid solutions of zirconium with niobium and molybdenum

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 7, 1962, 72, abstract 71476: (In collection: "Metallurgiya i metalloved. chis. metallov". no. 3, Moscow, Gosatomizdat, 1961, 82 - 95)

TEXT: Smelted Zr-iodide-base cast alloys with 7.5 - 48% Nb, 0 - 10% Mo, 0 - 1.1% Ni, 0 - 0.5% Cu, 0 - 0.50% Ag and 0 - 3% Ti were tested as to their oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the open air at 600°C. The lowest oxidation rate proved to have oxidizability in the oxidizability in th

alloy with 12% Nb+7-10% Mo can be deformed by the cold method without the formation of cracks. The recrystallization point of this alloy is 720 - 750°C. When tempered for 230 hours, the segregation of the 2nd phase of the 15% Nb+10% Mo alloy becomes noticeable only at 500°C. The hardness of the alloy begins to

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Some properties of triple β -solid solutions of...

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quickly decrease at testing temperatures >500°C. Tests at 550°C and σ 9 - 10.5 kg/mm² revealed that the creep rate does not exceed 5·10⁻⁵ hour⁻¹. The smelting point of the 15% Nb+10% Mo alloy equals 1640°C, and it decreases to 1525°C when adding 0.5% Fe, Cu, Ni, Ag. The coefficient of the linear expansion in the temperature range of 100 - 800°C equals 6.5·10-6 degrees⁻¹. At 500°C, the coefficient of the heat conductivity is estimated at 0.2 watt/ohm.degree (somewhat higher than for the non-alloyed Zr).

L. Gomozov

[Abstracter's note: Complete translation)

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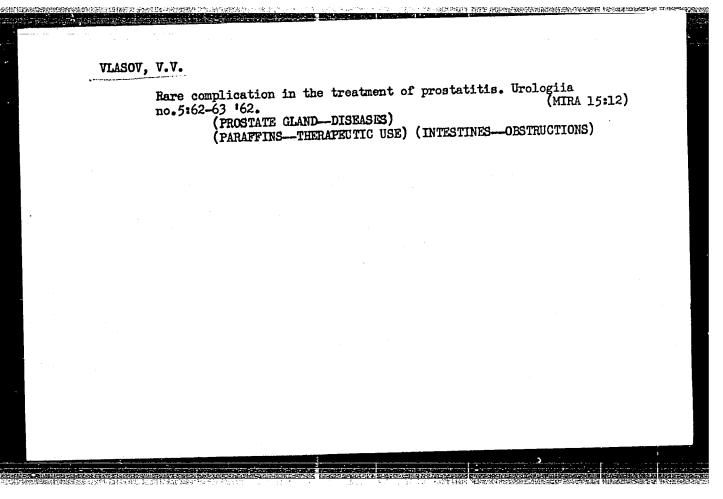
VLASOV, V.V., kand.med.nauk; MATSUEV, I.M. (Eovosibirsk)

Complications and the outcomes in the operation for cryptochism.

Urologiia 27 no.4128-31 JI-Ag '62.

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(TESTICLE—SURGERY)



KHALILEYEV, P.A.; VLASOV, V.V.

Magnetic Control of Rotating Bodies

Zav. Labor. 11, 7, 1945

VLASOV, V. V.

Application of Pattern-Making to the Problem of Rail Defectoscopy.

Ural State University imeni Gorkiy, Sverdlovsk, 1947.

So: U-1837, 14 April 52.

KHALILEYEV, P. A., VLASOV, V. V.

Magnetic Testing

Methods of magnetic defectoscopy used during high speed motin. Trudy Inst. fiz. met. No. 7, 1948.

_1953. Unclassified. 9. Monthly List of Russian Accessions, Library of Congress,

VLASCV, V.V.	where C's are constants By assuming $\mu\sigma$ vL = C ₁ i = K ₂ $\mu\sigma$ v. Thus, he of theorems for electromagnetic media, and overcondependence of magnetic izes the medium, upon the state of the section of t		USSR/Engineering - 1	"Dok Ak Nauk SSSR" Vol LXIX, No 1 \$7-46 Shows density of unipolar induction current to ple reasoning to be expressible in the case in the following dimensionless products: 1. I(H \(\mu\sigma\rm v\)^-1; \(\mu\sigma\rm v\)L. Hence, current density written in two externally different express:	"Application of Modeling (Dimensional Analysis) to the Unipolar-Induction Problem of the Electromagnetic Defectoscope," V. V. Vlasov, Inst of Phys of Metals, Ural Affiliate, Acad Sci USSR, 4 pp	USSR/Engineering - I
	Vlasov obtains obtains of gnetic planes the permeab	$i = c_1 \cdot (H/L) F_1(\mu \sigma v L)$ $i = c_2 \cdot \mu \sigma v H _2(\mu \sigma v L)$	Instruments (Contd)	Nauk SSSR" Vol LXIX, No 1 0.37-46 insity of unipolar induction current by simponing to be expressible in the cgse system collowing dimensionless products: i.IH-1; collowing dimensionless products: i.IH-1; in two externally different expressions:	ling (Dimensional Ane on Problem of the Ele V. V. Vlasov, Inst c te, Acad Sci USSR, 4	Instruments Electromagnetism
156117	s are certain functions. btains i = K ₁ /L and various similarity nenomena in ferromagdifficulty of nonlinear lity, which character-il.		156T17	ent by sim- gse system i.IH ⁻¹ ; ity can be essions:	Analysis) to Electromag- st of Phys of	1 Nov 49

VLASOV, K.K.

126-3-29/34

AUTHORS: Vlasov, V. V. and Stoinskaya, E. E.

On the influence of the magnetic non-linearity of the material of components on the field of crack-type defects. TITLE: (O vliyanii magnitnoy nelineynosti materiala izdeliya na pole defektov tipa treshchin).

PERIODICAL: "Fizika Metallov i Metallovedeniye" (Physics of Metals and Metallurgy), 1957, Vol.4, No.3, pp. 552-554 (U.S.S.R.)

ABSTRACT: Yanus, R.I. (1) and Sapozhnikov, A.B. (2) arrived at the conclusion that magnetic non-linearity of the medium should improve the possibilities of detection of defects for fields exceeding the field which corresponds to maximum permeability. The authors considered it of interest to investigate the defect field for various depths from the surface to the defect, since it can be anticipated that there will be a considerable influence on the field of the defect in the part of the component which is located between the defect and the surface of observation. For the investigations a specimen was prepared, a sketch of which is shown in Fig.l and which was provided with artificial defects. The specimen and which was provided with artificial defects. consisted of two continuous cylinders and six bushings; these Card 1/2 contained various artificially produced defects. The results obtained are in qualitative agreement with the

On the influence of the magnetic non-linearity of the 126-3-29/34 material of components on the field of crack-type defects. (Cont.)

Yanus-Sapozhnikov theory and can be considered in the first approximation as an experimental confirmation of this theory. It was also found that formation of the field of the defect is appreciably influenced by the material of the layer directly adjacent to the edges of the defect and that improved detection of the internal defects are observed within the limits of a certain height which increases with

increasing magnitude of the external field. It is possible to increase the field of open defects by applying relatively thin ferromagnetic inserts between the defect and the detection instrument. There are 3 figures and 2 Slavic references.

SUBMITTED: November 30, 1956.

ASSOCIATION: Institute Metal Physics Ural Branch of the Ac.Sc. USSR. (Institut Fiziki Metallov Ural'skogo Filiala AN SSSR).

AVAILABLE: Library of Congress

AUTHORS: Vlasov, V. V., and Pyatigorskaya, L. Z. 126-2-30/35

AUTHORS: Vlasov, V. V., and Pyatigorskaya, L. Z. 126-2-30/35

Investigation of the influence of the material of a defect. (Issledovaniye component on the field of a defect. (Issledovaniye vliyaniya materiala izdeliya na pole defekta).

Vliyaniya materiala izdeliya na pole defekta).

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.2, 376-377 (USSR)

ABSTRACT: It was found experimentally that internal transverse cracks in heads of light-weight rails can be detected by a magnetic defectoscope to a greater depth than for ails of the heavier type if an induction of a frequency of 4 to 5 kc/s is used. This was attributed to the fact that light-weight rails have been longer in service and, that light-weight rails have been longer than therefore, were work hardened to a greater degree than therefore, were work hardened to investigated the effect heavy weight rails. The authors investigated the metal of differing magnetic properties in a layer of the metal of differing magnetic properties in a layer of the on the field of a defect which simulated artificially a of differing was used which was of the same design transverse crack. For investigating the field of the defect a specimen was used which was of the same design as that designed in earlier work (Ref.2). The defect as that designed in earlier work (Ref.2). The defect as that designed in earlier work (Ref.2). The defect as that designed in earlier work (Ref.2). The defect as that designed in earlier work (Ref.2). The defect as that designed in earlier work (Ref.2). The defect as the faces of two cylindrical specimens made of Steel 40, each being 10 cm long and 8 mm in dia. These cylinders each being 10 cm long and 8 mm in dia. These cylinders were fitted with alternately hollow cylinders made of

Investigation of the influence of the material of a component on the field of a defect.

Steel 10, 40 and 65 with an internal diameter of 8 mm and a wall thickness of 1.5 mm. Their coercive force was respectively 1.9, 3.5 and 11.8 Oe. Thus, the depth of the defect was 1.5 mm and the material had in two cases magnetic properties differing from those of the basic material. The investigations consisted of determining the tangential component of the field of the defect on the surface of the specimen and for this purpose it was placed between the poles of an electromagnet. was measured with a small flat coil and was determined by changing over the polarity of the current in the electromagnet. The results are plotted in Fig.1. It was found that a hard layer on the top does indeed bring about an increase of the field of a defect and this elucidates qualitatively the difference in the possibility

of detection of defects in rails with little and with Card 2/2 considerable work hardening of the surface layer. There are 1 figure and 3 Slavic references. SUBMITTED: July 21, 1957.

ASSOCIATION: Institute of Physics of Metals, Ural Branch of the

Ac.Sc. USSR (Institut Fiziki Metailov Ural'skogo Filiala

AVAILABLE: Library of Congress.

NATIONAL PROPERTY OF THE PROPE 126-2-31/35 Vlasov, V. V., and Pyatigorskaya, L. Z. Comparative investigation of the field of open and VLASOV, internal defects. (Sravnitel noye issledovaniye AUTHORS: polya otkrytogo i vnutrennego defektov). PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.2, TITIE: ABSTRACT: According to the theory of R. I. Yanus (Ref.1) which was magnetic non-linearity of the material of a component which contains cracks is of great importance from the maint of view of formation of the field of defects point of view of formation of the field of defects. Under magnetostatic conditions the field of a defect is produced by surface magnetic charges located directly at the walls of the defect and by space charges which are due to magnetic non-linearity of the material of the component in the sections of the metal which are near to the defect. The field of these charges show differing the delect. The lield of view charges show differing to this dependence on the magnetizing field. According to the theory, space charges will intensify the field of the theory, in the case of magnetizing fields (internal field defect in the case of magnetizing field strength which in the component) exceeding the field strength which in the component) exceeding the field strength which corresponds to the maximum magnetic permeability and will corresponds to the maximum magnetic permeasuring and war veaken that field if the field strength is lower. One

126-2-31/35 Comparative investigation of the field of open and internal defects.

> of the authors of this paper and E. E. Stoinskaya (Ref.3) studied experimentally the influence of magnetic nonlinearity of the material of a component on the field generated by the defect. However, they studied only the field of a defect in the range of comparatively strong magnetic fields. The authors of this paper considered it of interest to investigate the field of internal defects within a wider range of magnetizing fields and for this purpose they made a comparative study of the field of an open and a closed defect of equal size. The investigations were carried out using an artificial defect which simulated the transverse crack at the head of a rail. A specimen was used which in design and dimensions was equal to that described in earlier work (Ref.3). The defect was formed by an 0.02 mm strip of paper between the two end faces of continuous steel cylinders and this was considered as being an open defect. The same defect became an internal one after sliding on a hollow cylinder with an internal diameter equalling the external diameter of the solid cylinders above the defect. The wall thickness of the

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Comparative investigation of the field of open and internal defects.

hollow cylinder was 1.5 mm and represented in the given case the depth of location of the defect. investigation consisted of determining the tangential component of the field of the defect at the surface of the specimen. Whether it is permissible to use in the given case a specimen of the here mentioned design has been dealt with in the earlier work mentioned above (Ref.3). The specimen was placed between the poles of an electromagnet. The field was measured by means of a small flat coil during switching the current of an electromagnet. The results of measurements of the tangential components H_d of the fields of an open and of a closed defect as a function of the induction B in the specimen are graphed in Fig.1. Curves 1 and 2 refer respectively to the open and the closed defects. It can be seen from the graph that at low inductions (up to 4 kGauss), i.e. in weak fields, the field of internal defects is considerably lower than the field of an open defect. However, for inductions exceeding 4 kGauss the field of an internal defect Hd is higher than that of an open defect and the difference will be the more pronounced the higher the induction in the specimen.

Card 3/4 This difference in the behaviour of the field of a

Comparative investigation of the field of open and internal defects.

defect in dependence of the external field is in good agreement with the theory of Yanus-Sapozhnikov and is obviously due to the magnetic non-linearity of the material of the component. In Fig.1 the relation between of defects.

There are 1 figure and 3 references, all of which are Slavic.

(Note: This is a complete translation).

SURMITTED: August 21, 1957.

ASSOCIATION: Institute of Physics of Metals, Ural Branch of the Ac. Sc. USSR (Institut Fiziki Metallov Ural'skogo Filiala AN SSSR)

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